

# OCS Environmental, Inc.

# U.S. Steel Gary Works Emissions Inspection Summary

|                   | ,            | , ,                |             | ·     |
|-------------------|--------------|--------------------|-------------|-------|
| Date:             | 161          | 12                 | <del></del> |       |
| Start Time:       | <u>99:30</u> | AM                 | ) PM        | ,,    |
| End Time:         | 1:29         | (AM                | )/ PM       |       |
| No. 2 Precarbon E | SP           | •                  |             |       |
| вор               | Roof Mor     | nitor              | Gas Cle     | aners |
| QBOP              | Roof Mor     | nitor <sup>*</sup> | Gas Cle     | aners |
| Blast Furnace     | 4            | 6                  | · 8         | 14    |
| Blast Furnace Top | 4            | 6                  | 8           | 14    |

The following events or operations contributed to significant emissions:

| Time      | Heat/Cast Number | Operation  | Comments   |        |
|-----------|------------------|--|--|--------|
| 1019-1025 | 65               | OPENED HOLE 10:19<br>CALOLING EXCESS<br>EALIOSIONS | Total 500<br>Aug 20.83<br>Black (Shell) High 40. | ١<br>٩ |
|           |                  |  |  |        |
|           |                  |  | ·  |        |
| -         |                  |  |  | -      |
|           |                  |  |  |        |

20071107 Inspection Summary.doc



| •                                 | •         |                         |   |                  |                |        |        |               |          |             | Page _          | of _                                  | ے           |  |
|-----------------------------------|-----------|-------------------------|---|------------------|----------------|--------|--------|---------------|----------|-------------|-----------------|---------------------------------------|-------------|--|
| ъ.                                |           |                         | , ,   |                  |                |        |        |               |          |             | Clark           | 1 End                                 |             |  |
| Date:                             |           |                         | 6-1<br>BE                                     | 2                | <del>-</del> . | ٠      |        |               |          |             | Start           | End                                   |             |  |
| Source:                           |           | 14                      | BEG   | CE.              |                |        |        | ons co        |          |             | Donec           | Sam                                   | <u> </u>    |  |
| Observation Start Ti              | me:       | 0                       | 9.3   | 0                | _              |        |        | ound:         |          | <u>ک</u>    | SVI             |                                       |             |  |
| Observation End Tir               | ne:       | 0                       | 9:5   | 2                |                | Sk     | y Col  | nditio        | ns:      | CL          | Cloudy          |                                       |             |  |
| Observer's Position:              | •         |                         | IBF   |                  | •              | Wij    | nd S   | peed:         |          |             | . (6            |                                       |             |  |
| Distance to source:               | • '       | 800 yos Wind Direction: |   |                  |                |        |        |               | SW       |             |                 |                                       |             |  |
| Direction to source:              | •         |                         | 1)  |                  | -              |        |        | t Tem         |          | ,           | 48°             |                                       |             |  |
| Direction to decires.             | •         |                         | 338   | 3                | -              |        |        | Hum           |          |             | 66%             |                                       |             |  |
| Height of source:                 | -         |                         | 2/.   | ,                | -              |        |        | b Ten         |          | ·           | VB75            |                                       |             |  |
|                                   | -<br>-    |                         |   |                  | -              | Y Y C. | ir mai | W 1 VI        | ıp.      |             |                 | L                                     |             |  |
| Vertical angle to sou             | ice.      | <i>_</i>                | <u> </u>                                      |                  | •              | Plu    | me T   | уре           | Attac    | hed)        | Detac           | ched 1                                | None        |  |
|                                   |           | 1 4 5                   | 20  | 1 4 5            | Т              |        | T n    | 15            | 30       | 45          | T C             | omments                               |             |  |
| Comments                          | 0         | 15                      | 30  | 45               | <del> </del>   | 00     | 10     | <del></del> - |          | <del></del> | <del></del>     | ATTITION (2)                          | <u></u>     |  |
|                                   |           |                         | <u> </u>                                      |                  | 0              | 30     | 10     | Ö             | 0        | 0           | <del> </del>    |                                       | ~           |  |
|                                   |           | L                       |   |                  | 1              | 31     | 10     | 10            | 10       | 0           | <u> </u>        |                                       |             |  |
|                                   |           |                         |   |                  | 2              | 32     | 0      | 0             | 10       | 0           | <u> </u>        |                                       |             |  |
|                                   |           |                         | -   |                  | 3              | 33     | 12     | 0             | 0        |             | -               |                                       |             |  |
| ·                                 |           |                         |   |                  | 4<br>5         | 34     | 8      | 10            | 0.       | 0           |                 | · · · · · · · · · · · · · · · · · · · |             |  |
|                                   |           |                         |   | <del></del> :    | Ď              | 35     |        | 10            | 0        | 0           | <del> </del>    |                                       |             |  |
|                                   |           |                         |   |                  | 6              | 36     | 0      | 10            | 0        | 0           | <del> </del>    |                                       |             |  |
|                                   |           |                         |   |                  | 7              | 37     | 0      | 0             | 0        | . [         | ļ               |                                       |             |  |
|                                   |           |                         |   |                  | 8              | 38     | 0      | 0             | 0        | <u>Q</u>    |                 | <u> </u>                              | <del></del> |  |
|                                   |           |                         |   |                  | 9              | 39     | 0      | 9             | 0        | 0           | ļ               |                                       |             |  |
|                                   |           |                         | l   |                  | 10             | 40     | 0      | 0             | 0        | 0           | <u> </u>        |                                       |             |  |
|                                   |           |                         |   |                  | 11             | 41     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 12             | 42     | 0      | $\circ$       | <u> </u> | <u>o</u>    |                 | <del>,</del>                          |             |  |
|                                   |           | l                       |   |                  | 13             | 43     | 12     | 0             | 0        |             |                 |                                       |             |  |
|                                   |           |                         |   |                  | 14             | 44     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 15             | 45     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
| *                                 |           | ]                       |   |                  | 16             | 46.    | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         | <u>.                                     </u> |                  | 17             | 47     | 0      | 0             | U        | 0           |                 |                                       |             |  |
|                                   |           |                         |   | ]                | 18             | 48     |        | 0             | 1.3-     | 2           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 19             | 49     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   | :_               | 20             | 50     | 0      | 0             | 0.       | O           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 21             | 51     |        | 0             | 0        | P           |                 |                                       |             |  |
|                                   |           |                         |   | [                | 22             | 52     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 23             | 53     | 2      | O             | 0        | 0           |                 | <del></del>                           | ——          |  |
| •                                 |           |                         |   |                  | 24             | 54     | 0      | 2             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 25             | 55     | 0      | c>            | 0        |             |                 |                                       |             |  |
|                                   |           |                         |   |                  | 26             | 56     | 0      | 0             | 0        | 0           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 27             | 57     | 0      | 0             | 0        | 2           | <del>,,,,</del> |                                       |             |  |
|                                   |           |                         |   |                  | 28             | 58     | 0      | 0             | 0        | 7           |                 |                                       |             |  |
|                                   |           |                         |   |                  | 29             | 59     | 0      | 0             |          | 0           |                 |                                       |             |  |
| Additional Info (Include steam di | ssipation | i polni)                |   |                  |                | ľ      | Obser  | ver's Sig     | inalure  |             |                 |                                       |             |  |
| <u> </u>                          |           | <del>,,</del>           |   | <del>. , .</del> |                |        |        | 7 V           | )        | 0.          |                 |                                       | · ]         |  |
|                                   |           |                         |   |                  |                | L      |        | _{/>          | un       | -174-       | <del></del>     |                                       |             |  |
|                                   |           |                         |   | <del>, ,</del>   |                |        |        |               |          |             |                 |                                       |             |  |
|                                   |           |                         | -   |                  |                |        |        |               |          |             |                 |                                       |             |  |
| 20071107 Method 9 Inspection F    | onn.doc   | ;                       |   | •                |                |        |        |               |          |             |                 |                                       |             |  |



|                             |           |           | •       |             | ÷        |    |      |          |              |             |            | Page 2 of 3   |
|-----------------------------|-----------|-----------|---------|-------------|----------|----|------|----------|--------------|-------------|------------|---------------|
|                             |           |           |         |             | •        |    |      |          |              |             |            |               |
| Date:                       | ,         |           | 1-      | Gol         |          | _  |      |          | •            |             | u          | start) End    |
| Source:                     | •         |           | 14      | BIFCI       | <u> </u> |    |      |          | ns col       | or:         | 115        | DOTED SAOW    |
| Observation Sta             | rt Time   | a.        |         | 101         | 120      | ٠. |      | ekgro    |              |             |            | $\sum K_1$    |
| Observation End             |           |           |         | 100         |          | -  | Sky  | Con      | dition       | s;          | <u>, C</u> | Cervily       |
|                             |           | •         |         | 1401        | 21       | -  |      | nd Sp    |              |             |            | 6             |
| Observer's Posit            |           |           |         | [71.134<br> | 7        | -  |      |          | rectio       | n:          |            | Sw            |
| Distance to sour            |           |           | ,       | 600 x       | 1/2      | -  |      |          | Tem          |             |            | 480           |
| Direction to sour           | ce:       | ٠.        |         | <u> </u>    |          | -  |      |          | Hum          |             | ,<br>h.    | 660           |
|                             |           |           |         | 338 -       |          |    |      |          | Ten          |             |            |               |
| Height of source            |           | _         |         | 121         | <u> </u> | ٠. | MAG  | Duit     | 2 1011       | φ.          |            |               |
| Vertical angle to           | source    | 3:        |         | 30          |          | ٠. | Dia  | শা       | سيهرون       | Attacl      | had        | Detached None |
| •                           |           |           |         |             | •        |    | Plui | ne i     | ype:         | Allaci      |            |               |
| Comments                    |           | 0         | 15      | 30          | 45       |    | ·    | 0        | 15           | 30          | 45         | Comments      |
| <u> </u>                    |           | <u>っ</u>  | 0       | 6           | 0        | 0  | 30   | 100      | 0            | 12_         | 0          |               |
|                             |           | 130       | 0       | 0           | 0        | 1  | 31   | 2        | (5)          | 0           |            |               |
|                             |           | ラ<br>ラ    | 0       | 0           | 0        | 2  | 32   | 0        | 0            | 0           | <u>O</u> . | <del></del>   |
|                             |           | 2         | 0       | 0           | 0_       | 3  | 33   | 2        | 12           | 10          | 0          |               |
| 4                           |           | 9         | 0       | ري          | 0        | 4  | 34   | 0        | 0            | 2           | ලා         |               |
|                             |           | <u> </u>  | $\circ$ | 0           | 0        | 5  | 35   | 0        | 0            | 0           | 0_         |               |
|                             |           | 2         | 0       | 0           | 0        | 6  | 36   | 0        | 0            | 0           | 0          |               |
|                             | • /       | 9         | 0       | 0           | 0        | 7  | 37   | 0        | 0            | 0           | 00         |               |
|                             |           | 2         | 02      | 0           | 0        | 8  | 38   | 0        | 0            | 0           | 12_        |               |
| .,                          |           | ラ         | 0       | 0           | 0        | 9  | 39   | 1.0      | 0            | 0           | 0          |               |
|                             | (         | 9         | 0       | 0           | 0        | 10 | 40   | 0        | 0            | 0           | 0          | ·             |
|                             |           | 0         | 0       | 0           | 0        | 11 | 41   | 0        | 2            | 0           |            | <u> </u>      |
|                             | 6         | 2         | 0       | 0           | 0        | 12 | 42   | 0        | 2            | 0           | 0          |               |
|                             |           | 2         | 0       | <i>C</i> 2  | 0        | 13 | 43   | 0        | 0            | 0           | 0          |               |
|                             |           | 2.        | 0       | 12          | 0        | 14 | 44   | 0        | 0            | 0           | <u>Q</u>   |               |
|                             | - 7       | 9         | 0       | 0           | 0        | 15 | 45   | 0        | (>           | 0           | 0          |               |
|                             | . 6       | 2         | 12      | 0           | 0        | 16 | 46   | .0       | 12           | 9           |            |               |
|                             | . 6       | 2         | C2      | 0           | 0        | 17 | 47   | 0        | 0            | 0           | 0          |               |
|                             | 6         | 2         | 0       | 0           | 2        | 18 | 48   | 0        | 0            | حشي         | 2          |               |
|                             |           | 2         | 0       | 0           | 12_      | 19 | 49   | 0        | 0            | 0           | 0          |               |
|                             | C         | ~         | 07      | 0           | 0<br>30  | 20 | 50   | 0        | 3            | 0           | 0          |               |
| Black 14                    | 5 %       | 8         | 40      | 30          |          | 21 | 51   | 0        | 0            | 0           | 0          |               |
| 11 80                       | 5 20      | 0         | 20      | 20          | 20       | 22 | 52   | 0        | 0_           | 0           | 2          |               |
| 1/ 8                        | 5 2       | 0.        | 00      | 20          | 20       | 23 | 53   | 0        | 0            |             | 0          |               |
| 11 16                       | 0 4       | 0         | 40      | 40          | 40       | 24 | 54   | 0        | 0            | <u>O</u> .  | Ó.         |               |
| 17.53                       | - Total   | 0         | 15      | 0           | 0        | 25 | 55   | 0        | (2)          | 4           | 2          |               |
|                             | 6         |           | O       | 0           | 0        | 26 | 56   | _0_      | O            | · O         | ō          |               |
| <del></del>                 | 0         |           | 0.      | 0           | 0        | 27 | 57   | 0        | ১<br>১       | <u>O</u>    | <u>Ş</u>   |               |
|                             | 10        |           | 0       | 0           | 0        | 28 | 58   | Ó        |              | 0           | 0          |               |
|                             |           | 31        | 0       | 0           | 0        | 29 | 59   | <u>0</u> | δ            | <u> </u>    | لعا        | ~ <del></del> |
| Additional Info (Include st | eam dissi | oatic     | n polnt | )           |          |    | l    | Obsert   | ver's Sig    | rnature<br> | $\alpha$   |               |
| 515                         | <u> </u>  | <b></b> - |         |             |          |    |      |          | 1            | ノ・          | 11.        | <u> </u>      |
|                             |           |           |         |             | ·.       |    | l    |          | <u>, /\}</u> | cul         | con        |               |
| •                           |           | <u> </u>  |         |             |          |    |      |          |              |             |            |               |
|                             |           |           |         |             |          |    |      |          |              |             |            | •             |



20071107 Method 9 Inspection Form.doc

|  |           |          |             |  |               |            |        |          |            | •        |              | 29                                    | ·~~           |
|--|-----------|----------|-------------|--|---------------|------------|--------|----------|------------|----------|--------------|---------------------------------------|---------------|
|  | •         | -        |             |  |               |            | ·      |          |            |          | Page_        | 3                                     | of <u>5</u>   |
| D.L.                                   |           |          | , ,         | /2                                     |               |            |        |          |            | <u>.</u> | Start        | l F                                   | nd            |
| Date:                                  |           |          |             | 12-                                    | -•            | Em         | بملمما | ns col   | or'        |          | NOTE         |                                       |               |
| Source:                                | •         | 14       | BE          |  | -             | -          |        |          | OI.        | ,,,      |              | V J SVA                               |               |
| Observation Start T                    |           |          | 11:00       |  |               |            | ckgro  |          | <b>.</b>   |          | <u> SK1</u>  |                                       |               |
| Observation End Ti                     |           |          | 7129        |  | -             |            |        | dition   | S.         | da       | ruly         | -                                     |               |
| Observer's Position                    | :         |          | 4.61        |  | <b>-</b>      |            | nd Sp  |          |            |          | <u> </u>     |                                       |               |
| Distance to source:                    |           | 8        | 200 Y       | 08                                     |               |            |        | ection   |            | کی       | 42_          | <del></del>                           |               |
| Direction to source:                   |           |          | <u>N</u>    | <del>_</del>                           |               |            |        | Tem      |            |          | 18           | - sb                                  |               |
|  |           | ن خ      | 38          | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | _             |            |        | Humi     | -          |          | lele         | 1 4                                   |               |
| Height of source:                      |           |          | 2/          |  | _             | We         | t Bult | Tem      | p:         |          |              |                                       |               |
| Vertical angle to so                   | irce:     |          | 30          | 11770                                  | _             |            |        |          |            | \        |              |                                       |               |
|  |           |          |             |  |               | Plu        | ne T   | уре: (   | Attach     | jedi     | Deta         | ached                                 | Non           |
|  |           |          |             |  |               |            |        | T 4 mm   | 1 00       | 1 45     |              | · · · · · · · · · · · · · · · · · · · |               |
| Comments                               | 0         | 15       | 30          | 45                                     | ļ <u>.</u>    |            | 0      | 15       | 30         | 45       | ļ            | Comme                                 | ents          |
|  | 00        | U        | 0           | $\Box$                                 | Ó             | 30         | ļ      |          |            |          |              |                                       | <del></del> - |
|  | 0         | 0        | 0           | 0                                      | 1             | 31         |        | <u> </u> |            | <u> </u> | <del></del>  | <del></del> -                         | ·             |
|  | 0         | 0        | 0           | 0                                      | 2<br>3        | 32         | ļ      | ├        | <b> </b> - | <u> </u> | <del> </del> |                                       |               |
|  | 0         | 0        | 0           | 0                                      | $\frac{3}{4}$ | 33         | ļ      |          | <b> </b> - |          | <b></b>      | <del></del>                           |               |
| ,                                      | 0         | 0        | 0           | 10                                     | 4             | 34         |        |          |            |          |              | · · · · · · · · · · · · · · · · · · · |               |
|  | 0         | C2_      | (2)         | 0                                      | 5             | 35         |        | <u> </u> |            | •        | ļ            |                                       |               |
|  | 0         | 0        | 0           | 10                                     | 6             | 36         |        |          |            |          | <del> </del> |                                       | <del></del>   |
|  | 0         | 0        |             | 0                                      |               | 37         |        |          |            |          | <del> </del> |                                       |               |
| · · · · · · · · · · · · · · · · · · ·  | 12        | C2       | <u>  22</u> | 10                                     | 8             | 38         |        |          |            |          |              |                                       |               |
|  | 12        | 12       | 0           | 10                                     | 10            | 39<br>· 40 |        |          | · -        |          |              |                                       |               |
| ······································ | 0         | 0        | 0           | 0                                      | 11            | 41         |        |          |            |          |              |                                       |               |
|  | 0         | O        | 0           | 0                                      | .12           | 42         |        |          |            |          | ~            |                                       |               |
|  | 0         | 0        |             | 6                                      | 13            | 43         |        |          |            |          |              |                                       |               |
|  | 0         | 0        | 0           | 6                                      | 14            | 44         | -      |          | ·          |          |              |                                       | •             |
|  | 0         | 0        | 1           | 0                                      | 15            | 45         |        |          |            |          |              |                                       | <del></del>   |
|  | 0         |          | 0           | 0                                      | 16            | 46         |        | -        |            |          |              |                                       |               |
|  | 0         | 0        | 0           | 6                                      | 17            | 47         |        |          |            |          |              |                                       |               |
| 14                                     |           | 0        | (2)         | 0                                      | 18            | 48         |        |          |            |          | ,            |                                       |               |
|  | 00        | 0        | 0           | 0                                      | 19            | 49         |        |          |            |          |              |                                       |               |
|  | 0         | S        | 1           | D                                      | 20            | 50         |        |          |            |          |              | •                                     |               |
|  | 0         | 0        | 0           | 0                                      | 21            | 51         |        |          |            |          |              |                                       |               |
|  | 0         | 0        | 0           | 0                                      | 22            | 52         |        |          |            |          |              |                                       |               |
|  | 0         | 0        | 0           | (2)                                    | 23            | 53         |        |          |            |          |              | <u>,</u>                              |               |
|  | 0         | D        | 0           | 0                                      | 24            | 54         |        |          |            |          |              |                                       |               |
|  | O         | 0        | 0           | 0                                      | 25            | 55         |        |          |            |          | ,_,,,,       |                                       |               |
|  | 0         | 8        | Ò           | 0                                      | 26            | 56         |        |          |            |          |              |                                       |               |
|  | 0         | 0        | 12          | 0                                      | 27            | 57         |        |          |            |          |              |                                       | <del>.</del>  |
|  | 7         | 0        |             | 0                                      | 28            | 58         |        |          |            |          |              |                                       |               |
|  | 6         | 0        | 12          | 7                                      | 29            | 59         |        |          |            |          |              |                                       |               |
| Additional info (Include steam o       | issipalic | n polat) |             |  |               |            | Observ | ers Sign | rature     | . ,      | 3            |                                       |               |
|  |           |          |             |  |               |            | ./     |          | (F)        |          | <i>f</i>     |                                       |               |
|  |           |          |             |  | <del></del>   | L          |        |          | () La      | the      |              |                                       |               |
|  |           |          |             |  |               |            |        |          | ·····      |          |              |                                       |               |
|  |           |          |             |  |               |            |        |          |            |          |              | <del></del>                           |               |



# OCS Environmental, Inc. Method 9 Source Layout Sketch

| Date: Observer Name: Begin Time: | 116112<br>CDulii<br>09:30 | Time End: | /1.29<br>N |
|----------------------------------|---------------------------|-----------|------------|
| No Sun Visible Times             | Observation Pol           | int       | ,          |
|                                  | 30 20                     | 10 30 50  | 5 65 70    |

20071107 Method 9 Source Layout Sketch.doc

### United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print

GW-Primary00151

Incident

**Short Description:** 

Verif - No. 2 QBOP Roof Monitor

Type:

Reported By:

Air Requirement Jim Alexander

Status: Phone: Open

Date Received:

3/19/2012 2:30 PM

USS / Transtar

712.7255

Employee?

Yes

Entered By: Date Occurred: Mayella Reyos

3/19/2012 2:56 AM

End Date:

3/19/2012 2:59 PM

Offsite?

No

Incident State:

**Process Unit:** 

Ended

Q-BOP - North

Location:

No. 2QBOP Roof Monitor

Description:

(1) exceedance of the PM10 limit observed on No. 2QBOP Roof Monitor. Average opacity reading of 35% from 14:56 - 14:59.

**Environmental Contact:** 

Date Contacted:

Mardanna Soto 3/19/2012 4:30 PM

Method of Contact: CPAR Required?

**Direct Contact** 

CPAR#:

Additional Information

Αlr

Severity:

High

Has the initial report been

confirmed?

Yes

Confirmation Method:

Field

Were changes to the Initial report No

required?

Yes - Agency Reportable

**Outside Impact?** Deviation (Y/N):

No Yes

Reportable? Permit/Citation Ref/Plan

Associated:

**Additional Comments:** 

This is the second PM-10 recorded. There was also another PM-10 and an internal due to

the same issue. Total duration was 9 minutes.

The smoke was a result of turning the furnace down to charge side to walt for a ladle to be placed on the car. The scheduled tap time was 15:15 however due to the single crane operation (1 charge was down for PM'S) the melters are told to charge as soon as the metal is available. The Melter contacted the pit foreman and asked if he would have a ladle ready early which would allow him to charge. The pit foreman said he would, and the furnace was charged. The ladle was not available when the blow was complete so the furnace was turned down, as they were turning down slag came over the lip at 80 degrees and they stopped for fear of spilling material in the pit and causing smoke in the shop. However, per procedure, they had to stay on rotation nitrogen (13,000 scfm) to keep the tuyeres clear, but they were out from under the primary hood, and the PM 10 system was on Y because they had already charged scrap. As soon as the ladle was ready the furnace was brought over to tap and the smoke stopped.

**Root Cause Determination:** 

The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladie crane operator leaving his crane while the ladie for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his crane immediately. He then moved the ladie for use by W furnace.

Associated with another incident? Yes

Associated Incident Number?

Primary00150

Health and Safety?

Incident Classification:

Na

Observation

Category:

Initiating Event:

Include in Rates and Counts?

Yes

11:45:38 AM

### United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print

Incident Detail

Incident Sub-Type:

Self Observed Event

Type of air requirement: Title V Permit

Internal Monitoring

Type of deviation/exceedance/regulation:

Cause:

The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladle crane operator leaving his crane white the ladle for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his

# COMS or # CEMS;

crane immediately. He then moved the ladle for use by W furnaco.

Control & Counter Measure:

Refer to CA and PA sections.

#### **Materials**

No Data

#### Regulatory Notifications

No Data

#### **Incident Investigation List**

No Data

#### Incident Investigation Detail

No Data

#### **Corrective Actions List**

| Corrective Action   | Status    |
|---------------------|-----------|
| P- craneman contact | Completed |

#### **Corrective Actions Detail**

Corrective Action: P- craneman contact

Author:

LASH, JAMES

Author Date:

3/19/2012

CAI#:

Notes:

Manager:

11969

Status:

Priority:

Completed

Origin Cause:

Proposed Corrective Action:

Contact craneman to ensure that they do not block an in-process ladle when craneman

must deboard crane for any reason.

2 of 3

Proposed Completion Date:

Revised Completion Date:

3/21/2012

Site Response: Assigned To:

Externally Controlled: Review on Completion:

Actual Corrective Action: Actual Completion Date:

Mar 20, 2012 12:00:00 AM

Verified By:

Date Verified:

Jun 13, 2012

11:45:38 AM

### United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print

Root Cause

No Data

Reviewers/Approvers

No Data

<u>Attachments</u>

No Data

Witness Statements

No Data

<u>Tasks</u>

No Data

Lessons Learned

No Data



|   | ٠        |             |  |                   |                  |   | •        |  |             |                  | Page   | <u>2</u> 0       | of _3  |            |  |
|---|----------|-------------|--|-------------------|------------------|---|----------|--|-------------|------------------|--|------------------|--|------------|--|
| Date: Source: Observation Start Til Observation End Tin Observer's Position: Distance to source: Direction to source: Height of source: | ne;      | 2 (:<br>2 : | 19-<br>19-<br>19-<br>19-<br>19-<br>19-<br>19-<br>19- | 405               | -                | Emissions color: Background; Sky Conditions: Wind Speed: Wind Direction: Ambient Temp: Relative Humidity%: Wet Bulb Temp: |          |  |             |                  | Start End  AS NOTED SAME  SKY  GRAY  6  S  66  80% |                  |  |            |  |
| Vertical angle to sou   | -        |             |  |                   |                  | Plu   | me Ty    | уре:(Д   | Attach      | ned)             | Detac  | hed              | Non  | Э          |  |
|   | UN #1    | 15          | 11E1   | <i>47 ‡</i><br>45 | <i>Τ<u>ω</u></i> | T   | Το       | 15   | 30          | 45               | T C  | omme             | nts  | <u> </u>   |  |
| Comments  |          | 0           | 0  | 0                 | 0                | 30  | Ð        | 0  | 0           | 0                | <del>                                     </del>   |                  |  | -          |  |
| RUN 2 HEATZ   | 0        | 0           | 0  | р                 | 1                | 31  | 18       | 0  | 0           | 5                | 1  | -                |  | 7          |  |
|   | 0        | 0           | 0  | 0_                | 2                | 32  | 0_       | 0  | ٥           | 0                |  |                  |  |            |  |
|   | Ó        |             | ō  | 0                 | 3                | 33  | 0        | 6  | Ó           | Ö                |  | ,                |  |            |  |
|   | 0        | 0           | o  | 0                 | 4                | 34  | 0        | O  | 0           | 0                |  |                  |  | _          |  |
|   | 0        | 0           | 0  | 0                 | 4<br>5           | 35  | 0        | O  | 0           | 0                |  |                  |  | 4          |  |
|   | 0        | 0           | ٥  | 0                 | 6                | 36  | 0        | 0  | Ó           | 0                |  |                  |  | 4          |  |
|   | .0       | 0           | 0  | 0                 | 7                | 37  | 0        | D  | 0           | 9                | <u> </u>   |                  |  |            |  |
|   | 0        | 0           | 0  | 0                 | 8                | 38  | 0        | 0  | 0           | ව                |  |                  | _ <del></del> -                              |            |  |
|   | 0        | 0           | 0  | 0                 | 9                | 39  | 6        | 0  | 0           | <u>.</u> .o.     | ·   <del>-                                  </del> |                  |  | -          |  |
|   | 0        | 0           | Ó  | 0                 | 10               | 40  | 0        | 0  | 0           | 0                |  |                  | <del></del>                                  | -          |  |
|   | 0        | 0           | 0  | 0                 | 11               | 41<br>42  | 0        | 0  | 0           | 0                | <del> </del>                                       |                  |  | ┥.         |  |
|   | 00       | 0           | 0  | 0                 | 13               | 43  | 0        | 0  | 0           | 0                | END HO   | -1171            | RUN2   | 1          |  |
|   | Ο.       | 0           | 0.   | 0                 | 14               | 43  | 8        | .0   | 0           | 0                | 12/10 110  | 11.6             | 4X 47 10 10-                                 | 7          |  |
|   | 0.       | 0           | र्च  | Ö                 | 15               | 45  | 0        | 6  | 0           | .0               | <b></b>  |                  |  | 7          |  |
| · · · · · · · · · · · · · · · · · · ·   | 0        | 0           | D  | 0                 | 16               | 46  | 0        | 0  | Ó           | 0                |  |                  |  | ٦          |  |
|   | 0        | 8           | 0  | ٥                 | 17               | 47  | 0        | 0  | 0           | 0                |  |                  |  | ]          |  |
|   | Ŏ        | Ö           | 0  | O                 | 18               | 48  | 0        | 0  | 0           | 0                | BEGIN  | HEA              | T31  | 1W2        |  |
|   | ŏ        | 0.          | 0  | 0                 | 19               | 49  | 0        | Ô  | Ò           | 0                |  |                  |  | _          |  |
|   | ō        | 0           | 0  | 0                 | 20               | 50  | 0        | Ó  | 0           | 0                |  |                  | ·  | _          |  |
|   | 0        | 0           | 0  | ٥                 | 21               | 51  | 0        | 0  | 0           | .0               |  | ****             |  | _{         |  |
|   | 0.       | 0           | 0  | ٥                 | 22               | 52  | 0        | 0  | 0           | 0                | ļ,   |                  |  | 4          |  |
|   | D        | 0           | 0  | 0                 | 23               | 53  | Ö        | Q.   | 0           | 20               | W.   | 440              | <u>33                                   </u> | -          |  |
|   | O        | Q.          | Q  | 0                 | 24               | 54  | 10       | 10   | 10          | 16               | 0.5  | <u>15</u>        |  |            |  |
|   | 0        | 0           | 0  | _0_               | 25               | 55  | 16       | 30   |             |                  | RE   | <u> </u>         |  |            |  |
|   | 0        | 0           | 0  | 0_                | <u> 26</u>       | 56  | 30       | 45   | 40          | 30               | <u> </u>   |                  |  | -          |  |
|   | 0        | Ŏ           | <u>Q</u>   | 0                 | 27               | 57  | 30       | 30   | 40          | 40               |  | <del>, , ,</del> |  | ┥.         |  |
| <del></del>   | 0        | 0           | 2  | 0                 | 28               | 58  | 30<br>30 | 30   | 20          | 80               |  |                  |  | -          |  |
| Additional info (include steam d  | O        | U Doint     | 0  | 0                 | 29               | 59  |          | 40<br>vers.5k                                    | SO Inatule  | QV               | <u> </u>   |                  |  | -† ·       |  |
| Additional into (include steam d  | Issipano | an battır)  |  |                   |                  |   |          | <u> </u>   | <u> </u>    | ol               | MSB  | 1                | ·  | <u>]</u> , |  |
|   |          |             |  |                   |                  |   |          | <del>/                                    </del> | <del></del> |                  | ·····  |                  | - <del></del>                                |            |  |
|   | <u>·</u> |             |  | <del></del> -     | <del></del>      |   |          | Ĺ  |             | <del>- : -</del> | ·  | ····             |  |            |  |
| 20071107 Method 9 Inspection  | Form.do  | oc          |  | : -               |                  |   |          |  |             |                  |  |                  | •  |            |  |



|   | •         |                     |              |            |  |          |          |  | ٠.          |                                       | Page /_ of                             |
|---|-----------|---------------------|--------------|------------|--|----------|----------|--|-------------|---------------------------------------|--|
| Data:   |           | 3.                  | 10           | 1.0        |  |          |          | •  |             | ·                                     | Start   End                            |
| Date:   |           |                     | 17-          | <u> </u>   | -  | Engl     | eelor    | is col                                       | חרי         |                                       | NOTED SAME                             |
| Source:                                       |           | 1/2                 | <u> 800</u>  | 00         | •  | -        |          |  | Oi.         |                                       | 5Ky /                                  |
| Observation Start Ti                          |           | 1359 05 Background: |              |            |  | 4-1/     |          |  |             |                                       |  |
| Observation End Tin                           |           | 5P-6 Wind Speed:    |              |            |  |          | 9/3      |  |             |                                       |  |
| Observer's Position:                          |           |                     |              |            |  |          | لــــ    |  |             |                                       |  |
| Distance to source:                           |           |                     | 25           | 405        |  |          |          |  |             |                                       | 5                                      |
| Direction to source:                          |           |                     | (W           |            |  |          |          | Temp   |             | 6                                     | 06                                     |
|   |           |                     |              |            |  |          |          | Humi   |             | o:                                    | 80%                                    |
| Height of source:                             |           |                     | 36' <u>.</u> |            | -  | Wet      | Buit     | Tem  | p:          |                                       |  |
| Vertical angle to sou                         | rce:      |                     | 130          |            |  |          | _        |  | ·<br>       |                                       | D C to I Many                          |
| 0   |           |                     |              |            |  | Plur     | ne Ty    | /pe:Œ  | <u>Mach</u> | 1ed)                                  | Detached None                          |
| <u> </u>                                      | # 2       | HE                  | MT           | # /        | ,  |          |          |  |             | · · · · · · · · · · · · · · · · · · · | <del></del>                            |
| Comments                                      | 0         | 15                  | 30           | 45         | <u>                                     </u> |          | 0        | 15   | 30          | 45                                    | Comments                               |
|   |           |                     | L            | <u> </u>   | 0  | 30       | 8        | 6  | 0           | 0                                     | <u> </u>                               |
|   |           |                     |              |            | 1  | 31       | 0        | o_   | 0           | 6                                     |  |
|   |           |                     |              | <u> </u>   | 2  | 32       | ġ.       | 0  | 0           | 0                                     | ļ                                      |
| •   |           |                     |              |            | 3  | 33       | 0        | 0  | 0           | 0                                     | <u> </u>                               |
|   |           |                     |              |            | 4  | 34       | 0        | 0  | 0           | 0                                     | <u> </u>                               |
|   |           |                     |              |            | 5  | 35       | 0_       | 6  | Ö.          | <u>.</u>                              |  |
|   |           |                     |              |            | 6  | 36       | 0_       | 0  | .0          | 0                                     | <u></u>                                |
|   |           |                     |              |            | 7  | 37       | 9        | 0  | 0           | 0                                     | <u> </u>                               |
|   |           |                     |              |            | 8  | 38       | .0       | 7  | 6           | 0                                     |  |
|   |           | 0                   | D.           | <u> </u>   | 9  | 39       | U        | 0  | .0          | 0                                     |  |
|   | <u> 0</u> | 0                   | 0            | Ö          | 10   | - 40     | 9        | 0  | 10          |                                       | <u> </u>                               |
| RUN#2 HEAT#                                   | 0         | 0                   | Ø            | Ó          | 11   | 41       | 0        | 0  | 0           | 0                                     |  |
| <u>, , , , , , , , , , , , , , , , , , , </u> | 0         | 0_                  | 0            | <u>Ş</u> _ | 13   | 42<br>43 | <u>o</u> | _0_  | ο.          | O                                     |  |
| ·   | 0 0       | 0                   | 0            | 0          | 14   | 44       | 0        | .O   | 0           | 0                                     |  |
|   | 0         | 0                   | Ø            | 0          | 15   | 45       | 0        | 0  | ٥           | 0                                     |  |
| *   | 0         | 0                   | 0            | 0          | 16   | 46       | 0        | Ö  | 0           | 0                                     |  |
|   | 0         | 0                   | Ø            | Ø          | 17   | 47       | 0        | 0  | ŏ           | O                                     |  |
|   | O         | 0                   | 0            | a          | 18   | 48       | O        | Ó  | ŏ           | Ö                                     |  |
| <u></u>                                       | 0         | 0                   | o.           | Ö          | 19   | 49       | Ó        | O  | 0           | ō                                     | ļ ———————————————————————————————————— |
|   | 0         | 0                   | 0            | 0          | 20   | 50       | 0        | ŏ  | ٥           | Ď                                     |  |
|   | 0         | 0                   | 0            | 0          | 21   | 51       | · O_     | Ö  | 0           | 0                                     |  |
|   | 0         | Ö                   | 0_           | 0          | 22   | 52       | 0        | Ö  | Q           | Ö                                     |  |
|   | 0         | 0                   | Ö            | 0          | 23   | 53       | 0        | Ö  | 0           | 0                                     |  |
|   | <u> </u>  | 0_                  | 0            | 0_         | 24   | 54       | O        | 0  | 0           | 0                                     |  |
|   | 0         | 0                   | 0            | Ø          | 25   | 55       | 9        | 0  | 0           | 0                                     |  |
|   | Ó         | 0                   | Ο.           | O          | 26   | 56       | O        | δ  | 0           | 0                                     |  |
|   | 0         | 0                   | O            | 0          | 27   | 57       | 0        | 0  | ٥           | Ó                                     |  |
|   | 0         | 0                   | 0            | Ö          | 28   | 58       | 0        | 0  | 0           | O                                     | END MEATI                              |
| <del></del>                                   | Ø         | b                   | 0            | 0          | 29   | 59       | 0        | 0  | 0           | 0                                     | BEGINGEAT#3                            |
| Additional Info (include steam o              | issipatio | on point)           |              |            |  |          | Obser    | vers Sig                                     | nature      |                                       | END HEAT I<br>BEGINGE AT # 3           |
| · · · · · · · · · · · · · · · · · · ·         |           |                     | ,            |            |  |          | - (      | 10   | 2           | Q.,                                   | 1                                      |
|   |           |                     |              |            | <del></del> -                                | ]        |          | <i>[</i>                                     | -           | KNO                                   | 200                                    |
| 80  |           |                     |              |            | -  |          | {//      | <u>'                                    </u> |             |                                       | ·                                      |
|   |           |                     |              |            |  |          |          |  | -           |                                       | · · · · · · · · · · · · · · · · · · ·  |
| 20071107 Melhod 9 Inspection                  | Form.do   | 96                  |              |            |  |          |          |  |             |                                       | • •                                    |



20071107 Method 9 Inspection Form.doc

|   | •         |                     |              |            |               | •   |   | ,   |                               | F               | Page 3 of 3   |
|---|-----------|---------------------|--------------|------------|---------------|---|---|---|-------------------------------|-----------------|---|
| Date: Source: Observation Start Ti Observation End Tir Observer's Position: Distance to source: Direction to source: Height of source: Vertical angle to source | ne:       | 15<br>5p<br>27<br>N | <u> 30 -</u> | V55        | T.            | Bad<br>Sky<br>Wir<br>Wir<br>Am<br>Rel<br>We | nission<br>ckgro<br>y Con<br>nd Sp<br>nd Dir<br>bient<br>bient<br>ative<br>t Bulb | und:<br>dition<br>eed:<br>ectior<br>Temp<br>Humi<br>Tem | s:<br>n:<br>o:<br>dity%<br>p: | #5<br>- 61      | Start End  NOTED SAME  KY  RNY  6  5  2022  Detached None |
| Comments  | 0         | 15                  | 30           | 45         |               | 1   | 10  | 15  | 30                            | 45              | Comments  |
| RED .   | 60        | <del></del>         | 20           | 10         | 0             | 30  | "-  | 10  | - 50                          | 70              | CONT D  |
| 7(20 -  | 10        |                     | 0            | 0          | 1             | 31  | + • •   |   | <b></b>                       |                 | CONI  |
|   | 8         | 0                   | <i>C</i>     | 0          | 2             | 32  | <b> </b>  |   |                               |                 |   |
|   | 0         | 0                   | 0            | 0          | 3             | 33  |   |   |                               |                 |   |
|   | .0        | 0                   | 0            | 0          | 4             |   |   |   |                               |                 |   |
|   | 0         | 0                   | 0            | 0          | 5             | 35  |   |   |                               |                 |   |
|   | Ů         | 0                   | 0            | O.         | 6             | 36  |   | •   |                               |                 |   |
|   | 0         | _0_                 | .0           | 0          | 7             | 37  |   |   |                               |                 |   |
|   | 0         | _0_                 | 0_           | 0          | 8             | 38  |   |   |                               |                 | •   |
| 18 (TVETTE  | 0         | Q                   | 0            | Ŏ          | 9             | 39  | ļ   |   |                               |                 |   |
|   | 0         | Ü                   | 0            | D_         | 10            |   |   |   |                               |                 |   |
| ·   | ٥         | 0                   | _O_          | 0          | 11            | 41  | ļi  | ,   |                               |                 |   |
|   | 0         | _O,                 | 0            | 0          | 12            | 42  |   |   |                               |                 |   |
|   | 0         | 0                   | ٥            | -0.        | 13            | 43  |   |   |                               |                 |   |
|   | 0         | 0                   | 0            | 0          | 14<br>15      | 44  |   |   | -                             |                 |   |
|   | 6         | _0_                 | Ø<br>Ø       | 0          | 16            | 45<br>46                                    |   |   |                               |                 | ,   |
| <del></del>   | 0         | 0                   | 0            | <i>O</i> . | 17            | 47  |   |   |                               |                 |   |
| **************************************  | 6         | O                   | 0            | O          | 18            | 48  |   |   |                               |                 | · · · · · · · · · · · · · · · · · · ·                     |
| <u> </u>  | ō         | O                   | 0            | 0          | 19            | 49  |   |   |                               | $\neg \uparrow$ | '   |
| -   | 0         | Ō                   | 0            |            | 20            | 50  |   |   |                               |                 |   |
|   | 0         | 0                   | 0            | 8          | 21            | 51  |   |   |                               |                 |   |
|   | 0         | 9                   | 0            | O          | 22            | 52  |   |   |                               |                 |   |
|   | Ó         | 6                   | 0            | ø          | 23            | 53  |   |   |                               | •               |   |
|   | 0         | 0                   | 0            | 6          | 24            | 54  |   |   |                               |                 |   |
|   | 0         | 0                   | 0-           | 0          | 25            | 55  |   |   |                               |                 |   |
|   | 0         | 0                   | O            | 0          | 26            | 56  |   |   |                               |                 |   |
|   | 0         | 0                   | 0            | 0          | 27            | 57  |   |   |                               |                 | · · · · · · · · · · · · · · · · · · ·                     |
|   | 0         | 0                   | _0           | 0          | 28            | 58  |   |   |                               |                 |   |
| Addison alter to be as as a   | 0         | 0                   | 0            | 0          | 29            | 59  | <u> </u>  | 27.00   | talusa                        |                 |   |
| Additional info (include steam di   | issipatio | n point)            |              |            |               | ļ   | Unserv  | er's Sig  |                               | )               |   |
| *   |           | ·                   |              | ٠.,        | - <del></del> |   |   | > V   | ALI                           | US.             | el :  |
|   |           |                     |              |            | <del></del>   | — L   | - <i>[]</i> -   | T-//  | v.ru                          | 7               | <u></u>   |
|   |           |                     |              |            |               |   |   | #   |                               |                 |   |



| Date:                                 | •              |                 | 2" 19  | <u>~12</u>   |          |          |             |           |               |             | start         | E                                       |                    |          |
|---------------------------------------|----------------|-----------------|--|--------------|----------|----------|-------------|-----------|---------------|-------------|---------------|---|--------------------|----------|
| Source:                               | ٠.             | Q-ROOF          |  |              |          |          |             | ıs col    | or:           |             | AS NOTED SAME |   |                    |          |
| Observation Start                     | Time:          | 15              | · ر) د   | <u> </u>     | _        |          | kgro        |           |               |             | KY            | L,                                      | A                  |          |
| Observation End T                     | ime:           | 15              | 15   | 45           |          | Sky      | Con         | dition    | s:            | _8          | LRIE          | 1_/                                     | ·                  |          |
| Observer's Position                   |                | SI              | 6-   |              |          | Win      | d Sp        | eed:      |               |             | 8             |   |                    |          |
| Distance to source                    |                | Ż               | 25   | 135          | •        | Win      | id Dir      | ection    | ):            | 3W          |               |   |                    |          |
| Direction to source                   |                |                 | /W   | <del>-</del> | 4        | Am       | bient       | Temp      | );            |             | 78°           | 1                                       |                    |          |
| 1511 0001011 10 11411 10              |                |                 |  |              | -        |          |             | Humi      |               | :           | 66%           | 1                                       |                    |          |
| Height of source:                     |                |                 | 186  | <del></del>  | •        |          |             | Tem       |               |             |               |   | -                  |          |
| Vertical angle to so                  | nurce:         | ·               | 130  |              | •        | ;        |             |           |               |             |               |   |                    |          |
| i ornom angle to a                    | , , , ,        |                 | *  |              | • .      | Plur     | ne T        | /pe:Œ     | <b>Attach</b> | red)        | Deta          | ched                                    | None               | <b>}</b> |
|                                       |                |                 |  |              |          |          |             | , T       | استنت         | and a few   |               |   |                    |          |
| Comments                              | 0              | 15              | 30   | 45           | $\gamma$ | Τ.       | 0           | 15        | 30            | 45          | C             | omme                                    | nts                | ٦        |
| 11                                    |                | <del>  '`</del> | -  |              | 0        | 30       | 0           | 0         | 0             | 0           |               |   | RUN Z              |          |
|                                       | +              |                 | $\vdash$   |              | 1        | 31       | 0           | 0         | Ü             | 0           |               | NTD                                     |                    | 7        |
|                                       | <del>-  </del> |                 | ·  |              | 2        | 32       | 0           | 17        | 0             | 0.          | ,             | -                                       |                    | ]        |
|                                       |                | ļ <u> </u>      | <del>                                     </del> |              | 3        | 33       | 0           | 0         | 0             | Ö           | ,             |   |                    | ]        |
|                                       |                |                 | -  |              | 4        | 34       | U           | O         | 0             | 0           |               |   |                    |          |
|                                       | 1 : ,          |                 |  |              | 5        | 35       | Q           | . 0       | 0             | 0           |               |   |                    | _[       |
|                                       | 1              |                 |  |              | 6        | 36       | 0           | Q         | O             | 0           |               |   |                    | 1        |
|                                       |                |                 |  |              | _7       | 37       | Ó           | O         | Ø             | Ô           | L             |   |                    | _        |
| -                                     |                |                 |  |              | 8        | 38       | 0           | 0         | O.            | 0           |               |   |                    | _        |
|                                       |                |                 |  |              | 9        | 39       | . 0         | 0         | 10            | 8           |               |   | ,_,_               | 4        |
|                                       |                |                 |  |              | 10       | 40       | O           | 0         | 0             | 0.          | ٠             |   |                    | 4        |
|                                       |                | <u> </u>        | ļi   |              | 11       | 41       | 0           | _0        | _0_           | Ö           |               | <del></del> ,                           | <b>,</b>           | 4        |
|                                       |                | <u></u>         |  |              | 12       | 42       | 0           | 0         | <u> </u>      | :0          |               |   |                    | -        |
|                                       |                |                 |  |              | 13       | 43_      | 0           | 0         | 0             | 0           |               |   |                    | -        |
| ·                                     | <u> </u>       | <u> </u>        |  |              | 14       | 44       | 0           | 0         | 0             | 0           |               |   | - 4 · 2 4 · · ·    | -        |
|                                       |                |                 |  |              | 15       | 45       | _0_         | 0         | 0             | 0           | END.          | 0350                                    | RVATI              | 44       |
|                                       | 1              |                 |  |              | 16       | 46       |             |           |               |             |               |   |                    | -        |
| •                                     |                |                 |  |              | 17       | 47       |             |           | <del>-</del>  |             |               |   | ~ <del>~~</del> ~~ | 1        |
| · · · · · · · · · · · · · · · · · · · |                | /               |  |              | 18       | 48       |             |           | ·             |             |               | <del></del>                             |                    | 1        |
|                                       |                | /               |  |              | 9        | 49<br>50 |             |           |               |             |               |   | <u> </u>           | 1        |
|                                       | -              |                 |  |              | 20<br>21 | 51       |             |           |               |             | ·             |   |                    | 1        |
|                                       | -              |                 |  |              | 22       | 52       |             |           |               | <del></del> |               |   |                    | 1        |
|                                       | <b></b>        |                 |  |              | 23       | 53       |             |           |               |             |               |   |                    | 1        |
|                                       |                |                 |  |              | 24       | 54       |             |           |               |             | <del></del>   |   |                    | 1        |
|                                       | -              |                 |  | <del>.</del> | 25       | 55       |             | ——-       |               |             |               |   |                    |          |
|                                       | <del> </del>   | -               | -  |              | 26       | 56       |             |           |               |             |               | -                                       |                    |          |
|                                       | <del></del>    |                 |  |              | 27       | 57       | <del></del> |           |               |             |               | , |                    | 1        |
|                                       | ·              |                 |  |              | 28       | 58       |             |           |               |             |               |   |                    |          |
|                                       | <del>   </del> |                 |  |              | 29       | 59       |             |           |               |             |               |   |                    |          |
| Additional Info (include steam        |                | in point)       | 1  |              | <u> </u> | ~~       | Observ      | er's Sign | usjma         | ~~~         |               |   |                    |          |
| ,                                     |                |                 |  | ,            | ·        |          |             | Λ.        | Z. ]          | 0           | sar           |   |                    |          |
|                                       |                |                 |  |              | ······   | [        |             | Li        | 40            | MM          | sax           |   |                    |          |
| •                                     |                |                 |  |              |          |          | /           |           | //            |             |               |   |                    |          |
|                                       |                |                 |  |              |          |          | 7           | τ         |               |             |               |   |                    |          |
|                                       | - t* 1         |                 |  |              |          |          |             |           | •             |             |               |   |                    |          |

## United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print

| <u>Incident</u>                              |   |                               |                           |
|--|---|-------------------------------|---------------------------|
| Short Description:                           | Verif - No. 2QBOP Roof Monitor                                  |                               |                           |
| Type:  | Air Requirement   | Status:                       | Open                      |
| Reported By:                                 | ocs .   | Phone:                        |                           |
| Date Received:                               | 3/23/2012 10:00 AM  | USS / Transtar Employee?      | No                        |
| Entered By: .                                | Mayella Reyes   |                               |                           |
| Date Occurred:                               | 3/23/2012 9:41 AM   | End Date:                     | 3/23/2012 9;43 AM         |
|  |   | Offsite?                      | No                        |
| Incident State:                              | Ended   | •                             |                           |
| Process Unit:                                | Q-BOP - North   | Location:                     | No. 2QBOP Roof<br>Monitor |
| Description:                                 | (1) exceedance of the PM10 limit at I 24% from 9:41am - 9:43am. | No. 2QBOP Roof monitor. Av    | erage opacily reading o   |
| Environmental Contact:                       | Mardanna Soto   | Method of Contact:            | Text                      |
| Date Contacted:                              | 3/23/2012 10:00 AM  | CPAR Required?                |                           |
|  |   | CPAR #:                       |                           |
| Additional Information                       |   |                               |                           |
| Media:                                       | Air   | Severity:                     | High                      |
| Has the Initial report been confirmed?       | Yes   | Confirmation Method:          | Field                     |
| Were changes to the initial report required? | No  | Outside Impact?               | No                        |
| Reportable?                                  | Yes - Agency Reportable   | Deviation (Y/N):              | No                        |
| Permit/Citation Ref/Plan ·<br>Associated:    |   |                               |                           |
| Additional Comments:                         | Heat was T42320, card#9812                                      |                               |                           |
| Root Cause Determination:                    | Flameup apparently due to charging                              | wet scrap into a cold vessel. |                           |
| Associated with another incident?            | ' No  | Associated Incident Number?   |                           |
| Health and Safety?                           | No  |                               |                           |
| Incident Classification:                     |   | Category:                     | •                         |
| Initiating Event:                            |   |                               |                           |
| Include in Rates and Counts?                 | Yes   |                               |                           |
| Incident Detail                              |   |                               |                           |
| Incident Sub-Type:                           | Self Observed Event   | Type of air requirement:      | Title V Permit            |
| Type of                                      | Internal Monitoring   | # COMS or # CEMS:             |                           |
| deviation/exceedance/regulation:             |   | •••                           |                           |
| Cause:                                       | Under Investigation   |                               |                           |

Control & Counter Measure:

Refer to CA section

### **United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print**

#### <u>Materials</u>

No Data

#### Regulatory Notifications

No Data

#### Incident Investigation List

No Data

#### **Incident Investigation Detail**

No Data

#### **Corrective Actions List**

| Corrective Action  | Status    |
|--|-----------|
| P - use scrap E box when charging a cold furnace during wet conditions | Completed |
| c-manage e box at BOP  | Completed |

#### **Corrective Actions Detail**

Corrective Action: P - use scrap E box when charging a cold furnace during wet conditions

Author:

LASH, JAMES

Author Date:

3/23/2012

CA1#:

Notes:

Manager:

11969

Status:

Completed

Priority:

Origin Cause: Proposed Corrective Action:

Proposed Completion Date;

3/26/2012

Revised Completion Date:

Site Response:

Assigned To: Externally Controlled:

Review on Completion: Actual Corrective Action:

Actual Completion Date:

Mar 26, 2012 12:00:00 AM

Verified By:

Date Verified:

Corrective Action: c-manage e box at BOP

Author:

NICKERSON, IAN

Author Date: CAI#:

4/3/2012

Notes:

Although a BOP activity, this action item is being tracked under the QBOP incident due to

its similar nature.

Manager: Status:

12113

Priority:

Completed

Origin Cause:

Jun 13, 2012

2 of 3

11:49:18 AM

### United States Steel Corporation GW - Primary - Steel Producing EIRS Incident Screen Print

Proposed Corrective Action:

Proposed Completion Date: Revised Completion Date: Site Response:

Site Response:
Assigned To:
Externally Controlled:
Review on Completion:
Actual Corrective Action:
Actual Completion Date:

Verified By: Date Verified: Ensure BOP emergency scrap box is kept dry with either a tarp, moving the box inside, or putting it under a shelter.

4/30/2012 6/8/2012

E Scrap box has been moved under roof.

May 30, 2012 12:00:00 AM

#### **Root Cause**

No Data

#### Reviewers/Approvers

No Data

#### <u>Attachments</u>

No Data

#### Witness Statements

No Data

#### <u>Tasks</u>

No Data

#### **Lessons Learned**

No Data

Q Bop East GC5.

RON # 1 · HEAVEL

### OCS Environmental, Inc. Method 9 VE Inspection Form

| (22)   |          |   |                 |             |     | -        |  |           |                         | •  | •  |             |      |
|--|----------|---|-----------------|-------------|-----|----------|--|-----------|-------------------------|--|--|-------------|------|
|  | •        | •   |                 | -           |     |          |  |           |                         | F  | age  | ,<br>of _   | 3    |
| Date: Source: Observation Start Ti Observation End Tir Observer's Position: Distance to source: Direction to source: | ne: j    | 3/23/12<br>© Bop Roof mont.<br>0827<br>0859<br>586<br>225405<br>NW<br>10° |                 |             |     |          | kgro<br>Con<br>d Sp<br>d Dir<br>bient<br>ative | dition    | s:<br>n:<br>o;<br>dity% | \$<br>\ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u> | Start End  As Noted Stank  SKY  C.C / GRAY  E  C2° |             |      |
| Height of source:<br>Vertical angle to sou   | root.    | 13  | 3               |             | •   | YYC      | Duit   | / 1 CIII  | ıρ.<br>_                |  | 9/191  |             | —    |
| vertical angle to sou  | nce.     |   |                 |             | ,   | Plur     | ne Ty  | урб: /    | Attach                  | red)   | Detac  | hed         | None |
| Comments   | 0        | 15  | 30              | 45          |     | Ţ .      | 0  | 15        | 30                      | 45   | Co   | mments      | 3    |
|  | \        |   |                 |             | 0   | 30       | 0  | 0         | O                       | 0  |  |             | ,    |
|  | \        |   |                 | 1           | 1   | 31       | 8  | 0         | Q                       | O  |  |             |      |
|  |          |   |                 |             | 2   | 32       |  | 0         | 0                       | 0  |  | ******      |      |
|  |          |   |                 | _/          | 3   | 33       | 0  | 0         | Ö                       | O  |  |             |      |
| •  |          |   |                 | ļ <i>ļ</i>  | 4_  | 34       | 0_   | Q         | 0                       | <u>0</u>   |  | <del></del> |      |
|  | <u> </u> | <b>\</b>  |                 | <b>/</b>    | 5   | 35       | <u>Q</u>                                       | 0         | 0                       | <del></del>  |  |             |      |
|  |          | <b>\</b>  |                 | <u> </u>    | 6   | 36       | 0  | ŏ         | 0                       | 0  |  |             |      |
|  | · · · ·  | <del></del>   | <i> </i>        | ļ           | -/- | 37       | 0  | 0         | 0                       | 6  |  |             |      |
|  |          | -\  |                 |             | 8   | 38       | .6   | 5         | 10                      | 0  |  |             |      |
| ,  |          | <del>\</del>  |                 |             | 10  | 39<br>40 | Ö  | 0         | O                       | 0  |  |             |      |
|  |          |   | <del>/-</del> - | <del></del> | 11  | 41       | 0  | 0         | 0                       | 0  | ···-   |             |      |
|  |          |   | $\forall$       |             | 12  | 42       | Ö  | O         | ő                       | Ö  |  |             |      |
|  |          |   | <del>\</del>    |             | 13  | 43       | 0  | $\hat{o}$ | 0                       | $\circ$  |  |             |      |
| <u></u>  |          |   | /-              |             | 14  | 44       | Ö  | Ö         | 0                       | D  |  | ,           |      |
| <u> </u>   | <u> </u> | /   | $\vdash \vdash$ |             | 15  | 45       | O  | 0_        | 6                       | 0  |  |             |      |
|  |          | <del>/</del>  |                 |             | 16  | 46       | . 0  | 0         | 0                       | Ö  |  |             |      |
|  |          | <del>                                     </del>                          | -               |             | 17  | 47       | Ŏ  | 0         | Ö                       | Ö.   |  |             |      |
|  |          |   |                 |             | 18  | 48       | Ö  | O         | Ō                       | 0  |  |             |      |
|  | L        |   |                 |             |     |          |  |           |                         |  |  |             | 1    |

O. 24 54 0 0 25 26 55 0 Ó 56  $\circ$ **(**2 **(**2) 27 O 57 0  $\circ$ O 0 0 0 0 0 0 28 58 0 Ø Observer's Signature 29 59 Additional info (include steam dissipation point)

19

20

22 23

49 50

51

52 53

ō

0

 $\circ$ 

 $\mathcal{O}$ 

0

0

€3

0

O

0

o

 $\bigcirc$ 

O

20071107 Method 9 Inspection Form.doc



Date:

# OCS Environmental, Inc.

# U.S. Steel Gary Works Emissions Inspection Summary

| Start Time:    | 0237     | (AM   | ) PM     |       |
|----------------|----------|-------|----------|-------|
| End Time:      | 1012     | (AM)  | ) PM     |       |
| No. 2 Precarbo | on ESP   | •     |          |       |
| BOP            | Roof Mor | nitor | Gas Clea | aners |
| QBOP           | Roof Mor | nitor | Gas Clea | iners |
| Blast Furnace  | 4        | 6     | 8        | 14    |
| Blast Furnace  | Top 4    | 6     | 8        | 14    |

The following events or operations contributed to significant emissions:

| Time          | Heat/Cast Number | Operation        | Comments                                    |
|---------------|------------------|------------------|---|
| 0941- 0943 hs | T 42320          | Hot motal charge | ORANGE/BRUUN<br>Total - 285<br>Highest - 80 |
|               |                  |                  |   |
| <del>/</del>  |                  |                  |   |
|               |                  |                  |   |
|               |                  |                  |   |
|               |                  |                  |   |
|               |                  |                  | 1.8.4                                       |
| ·             | , / .            |                  |   |

20071107 Inspection Summary.doc

INCIDENTHOUIST



20071107 Method 9 Inspection Form.doc

| (S)   |                |  |  |              | •.       | •  |  |   |                         |            | Page $\frac{1}{2}$ of $\frac{3}{2}$   |            |
|---|----------------|--|--|--------------|----------|--|--|---|-------------------------|------------|---|------------|
| Date: Source: Observation Start Til Observation End Tin Observer's Position: Distance to source: Direction to source: Height of source: Vertical angle to sou | me:<br>ne:     | 0959<br>596<br>225 yes<br>NW<br>10<br>186        |  |              |          | Bac<br>Sky<br>Win<br>Win<br>Aml<br>Rela<br>Wet | kgrot<br>Cond<br>d Spe<br>d Dire<br>blent<br>ative<br>Bulb | ditions<br>eed:<br>ection<br>Temp<br>Humic<br>Tem | s:<br>n:<br>o:<br>dity% | (S)        | Start End No fer Same 124 124 134 14 15 162 188 17 10 10 10 10 10 10 10 10 10 10 10 10 10 | - 5        |
| Ozmanata  | 0              | 15   | 30   | 45           | T        | Ι  | 0  | 15  | 30                      | 45         | Comments  |            |
| Comments  | 0              | 0  | 0  | 0            | 0        | 30   | Š  | Ź   | V                       |            |   |            |
|   | 0              | 0  | 0  | Ö            | 1        | 31   | 0  | Ú.  | b                       | U          | Hent #2 Rou #1  |            |
|   | 0              | b  | <u>o</u> _                                       | O            | 2        | 32   | O  | O   | 0                       | O          |   |            |
|   | 0              | Ü  | 0  | 0            | 3_       | 33   | 0  | 0   | <u>v</u>                | <u>()</u>  |   |            |
| -   | Ó              | 0  | 0  | 0            | 4        | 34   | (2)  | 0   | 0.                      | 0          |   |            |
|   | 0              | 0  | 0  | 0_           | 5        | 35   | 0  | 0   | 0                       | 0          |   |            |
|   | <u>Q</u>       | 0  | 0  | 0            | 6        | 36   | $\circ$  | 0   | 0                       | 0          |   |            |
|   | 0              | 0  | 0  | 0            | 7        | 37   | Ö.   | 0   | 0                       | 0          |   |            |
|   | 0              | 0  | 0  | 0            | 8        | 38   | 0  |   | 0                       | 6          |   |            |
| , ,,  | 0              | 0  | õ  | 0            | 10       | 39<br>40                                       | 0  | 0   | 6                       | 5          |   |            |
| Am - 6 - 16 - 1 1 1   | ő              | O.   | 0_   | 0            | 11       | 41   | 80   | 70  | 60                      | 50         | BROWN / HOT MELL  | <b>-</b> T |
| END HEAT #  | VQ.            | 0  | 0  | 1/           | 12       | 42   | 30   |   | 0                       | 0          | 285 total   | •          |
| Rust  | <del>\</del> - | <del> </del>                                     |  | -/-          | 13       | 43   | Ö  | 5   | O                       | O          | 7.07  |            |
|   | <del></del>    | <del>                                     </del> |  | /-           | 14       | 44   | O  | 0   | O_                      | 0          |   |            |
|   |                | <del>\</del>                                     | -  | 7            | 15       | 45   | Ö_   | 0.  | Ò                       | 0          |   |            |
| <u></u>   |                |  |  |              | 16       | 46   | 0  | 0   | 0                       | 0          |   |            |
|   |                |  | 7  |              | 17       | 47   | 0  | 0   | 0                       | 0          |   |            |
|   |                |  | 7  |              | 18       | 48   | ٥  | 0   | O                       | O          |   |            |
|   |                |  | 17_  |              | 19_      | 49   |  | .D  | 0                       | $\Diamond$ |   |            |
|   | Ĺ              |  | X  |              | 20       | 50   | 0  | $\dot{o}$   | 0                       | 0          | <u> </u>  |            |
|   |                |  |  |              | 21       | 51   | _0_  | 0   | 0                       | 0          |   |            |
|   |                | /_   | <u> </u>   |              | 22       | 52   | <u>Ø</u>   | 0   | 0                       | 0          |   |            |
|   |                | /_   | <del>-</del> \-                                  | <del></del>  | 23       | 53   | 0  | 0   | 0                       | 6          | <u> </u>  | •          |
|   |                | /  | 1  | <del>_</del> | 24       | 54   | 00   | 0   | D<br>D                  | O_         |   |            |
|   |                | <i> </i>   | <del>                                     </del> |              | 25       | 55<br>56                                       | 0  | 0   | 8                       | 0          |   |            |
| ·   | /              |  |  | <del></del>  | 26<br>27 | 57   | D  | b   | Ü                       | v          |   |            |
|   | -/-            |  |  | <del>\</del> | 28       | 58   | Ö  | Ú   | v                       | v          |   |            |
| _ <del></del> _   | /              | <del>                                     </del> |  | -            | 29       | 59   | Ö  | Ö   | D                       | $\ddot{v}$ | · ·   |            |
| Additional info (include steam  | dissipati      | on point   | )  | <u></u>      | 1 20     | <u> </u>                                       |  |   | nature                  |            | 1 .   | •          |
| Entertonal time futures erentin   |                | - 1 - 1  |  |              |          |  |  |   | RI                      | Ma         | 1   |            |
|   |                |  |  |              |          |  | •  |   | / -4                    |            |   |            |
|   |                |  |  | -            | •        |  |  |   |                         | v          |   |            |



End Start Emissions color: AS NOTED Background: Sky Conditions: <u>O.C. / GRAY</u> Wind Speed: Wind Direction: Ambient Temp: 620 Relative Humidity%: 889

Page 3

Date: Source: Observation Start Time: Observation End Time: 1011 Observer's Position: <u>594</u> Distance to source: 225 you Direction to source: 10 Height of source: 126 Wet Bulb Temp: N/A Vertical angle to source: Detached None Plume Type: Attached

| Comments                              | 0          | 15       | 30  | 45          |          |     | 0        | 15        | 30       | 45   | Comments |
|---------------------------------------|------------|----------|-----|-------------|----------|-----|----------|-----------|----------|------|----------|
|                                       | · [ 0_     | O        | 0   | 0           | 0        | 30  |          |           |          |      | ·        |
|                                       | O          | D        | 0   | 0           | 1        | 31  |          | L         |          |      |          |
|                                       | 0          | Ø        | 0   | 0           | 2        | 32  | <u> </u> |           |          |      |          |
|                                       | 0          | 0        | 0   | 0           | 3        | 33  |          |           |          |      |          |
|                                       | . 0        | 0        | 0   | Q           | 4        | 34  |          |           |          |      |          |
|                                       | 0          | 0        | 0   | ٥           | 5        | 35  |          |           |          |      |          |
|                                       | 0          | Ö        | 0   | ò           | 6        | 36  |          | ,         |          |      |          |
|                                       | 0_         | 6        | ·O  | 0           | 7        | 37  |          |           |          |      | 4.1.     |
|                                       | 0          | Ø.       | 0   | 0           | 8        | 38  |          |           |          |      |          |
|                                       | 0          | 0        | 0   | Ö           | 9        | 39  |          |           |          |      |          |
|                                       | 0          | O        | 0   | 0           | 10       | 40  |          |           |          |      |          |
| ABort                                 | Q          | 0        | 0   | 0           | 11       | 41  |          |           | -,       |      |          |
|                                       | 0          | (2)      | 0   | 6           | 12       | 42  |          |           |          |      |          |
|                                       |            |          |     | ,           | 13       | 43  |          |           | •        |      |          |
|                                       |            |          |     |             | 14       | 44  |          |           |          |      | •        |
|                                       |            |          |     |             | 15       | 45  |          |           |          |      |          |
|                                       | -          |          |     |             | 16       | 46. |          |           |          |      |          |
|                                       |            |          |     |             | 17       | 47  |          | 1         |          |      |          |
|                                       |            |          |     |             | 18       | 48  |          |           |          |      |          |
| · · · · · · · · · · · · · · · · · · · |            |          |     |             | 19       | 49  |          |           |          |      |          |
|                                       |            |          |     | ,           | 20       | 50  |          |           | T.       |      |          |
|                                       | 11         |          |     |             | 21       | 51  |          |           |          |      |          |
|                                       | 1          |          |     |             | 22       | 52  |          |           | ·.       |      |          |
|                                       |            |          |     |             | 23       | 53  |          |           |          |      |          |
|                                       | 1 1        |          |     |             | 24       | 54  |          |           |          |      |          |
|                                       | 1          |          | - 1 |             | 25       | 55  |          |           | $\neg$   |      |          |
| · · · · · · · · · · · · · · · · · · · | 1 1        |          |     |             | 26       | 56  |          |           |          |      |          |
| ***                                   | +          | ~        |     |             | 27       | 57  |          | l.        |          |      |          |
|                                       | ┪~~~┼      |          |     |             | 28       | 58  |          |           |          |      |          |
|                                       | 1 . 1      |          |     | <del></del> | 29       | =0  |          |           |          |      | 3        |
| dditional info (Include steam         | dissipatio | n point) |     |             | <u> </u> |     | Observ   | er's Sigr | nature K | rf M | af       |



## OCS Environmental, Inc. Method 9 Source Layout Sketch

| Date:      |  | 3   | 123112    |
|------------|--|-----|-----------|
| <b>~</b> 1 |  | . 0 | h. w11-3. |

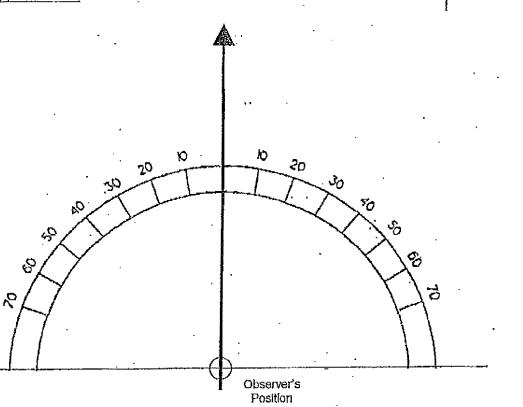
Observer Name: R. MACKEY

Begin Time: 0327

Time End: 1012

0357 0927 0157





Signature:

. Ril May .

20071107 Method 9 Source Layout Sketch.doc